



CAIT

Center for Advanced Infrastructure & Transportation
Rutgers, The State University of New Jersey

QUARTERLY PROGRESS REPORT

Project Title:	Fog Sensor / ITS Integration		
RFP NUMBER: N/A	NJDOT RESEARCH PROJECT MANAGER: Bernard O'Keefe		
TASK ORDER NUMBER/Study Number: 64 / 4-23787	PRINCIPAL INVESTIGATOR: Kaan Ozbay		
Study Start Date: 04/22/1999 Study End Date: 01/31/2002	Period Covered: 1 st Quarter 2002		

Task	% of Total	% of Task this quarter	% of Task to date	% of Total Complete
Phase 1				
Literature Search	5%	0%	100%	5%
1. Selection of Detection Systems	10%	2.5%	100%	10%
2. Integration and Installation of the 3. Weather / Traffic Detector	55%	20%	100%	55%
4. Project Management	25%	15%	100%	25%
5. Final Report (Phases 1 and 2)	5%	50%	50%	5%
TOTAL (Phase1)	100%			100%
Phase 2				
6. Establishment of Threshold Limits	20%	10%	20%	20% ¹
7. Evaluation of the System	80%	30%	100%	80%
TOTAL (Phase 2)	100%			100%

Note: 1. We separated Phase 2 from Phase 1 to make it clearer. We have not changed the percentages in Phase 1 for this quarter to reflect the delay due to the availability of phone line and power. However, the evaluation planning is being prepared and this is where we show changes in the percentages.

1. Default threshold limits are used.
2. Off-line data saved by the system is used

1. Progress this quarter by task:

- On the 15th of February 2002, we did a site visit to Trenton to evaluate the working of the sensors and the server. We met with Larry Sroka and used the server. The system has been working successfully and collecting data since November 2001. We also contacted SSI for the data needed to evaluate the system and they told us that they would send the data collected since November 2001 in a CD ROM.
- This data will be used to do the final evaluation of the system.
- Final draft report that describes the system and its evaluation is being completed.

2. Proposed activities for next quarter by task

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3. List of deliverables provided in this quarter by task (product date)

- Final System

Department of Civil and Environmental Engineering
623 Bowser Rd. Piscataway NJ 08854-8014
Tel : 732-445-0579 Fax: 732-445-0577



4. Progress on Implementation and Training Activities

- SSI conducted the training of the system (half a day) and the software and field training of the RTMS sensor (1 day). Operations North personnel and 2 people Rutgers attended the software training. Only one person attended the RTMS training on the field (Operations North did not want to participate in this training).

5. Problems/Proposed Solutions

- Maintenance of the system – Operations North will not maintain the sensors. As per Bernard O’Keefe, NJDOT will take responsibility (Bruce Wilson, Bureau Of Electrical Operations)
- VMS signs still have to be placed at the project site by Operations North (Rod Gilmore is the contact person).
- We do not have the pager numbers SSI needed for the automatic alarms from Operations North (Operations North was contacted several times).
- The Scan Server at Trenton has to be up and running all the time for the system to collect data and page the designated personnel. Larry Sroka has the possession of this server. (At the time of training the server was shut down due to an office move and never turned on again and SSI had re-start the server prior the training) – **On the February 15th 2002 meeting, we observed that the server was up and running.**
- There has to be a dedicated telephone line at the server location at Trenton for the server to page the designated personnel. SSI requested Larry Sroka to get this extra telephone line. - **The phone line is available now.**
- Rutgers does not have access to the database of the system for evaluation purposes because only people on the NJDOT backbone can get access to NJDOT server. SSI already contacted the NJDOT IT people and still waiting for a response. – **On the February 15th 2002 meeting, we contacted SSI and they agreed to send us the data collected since November 2002, in a CD-ROM. As of March 5th, 2002, we are still waiting for this data to complete the final report**

6. Budget Summary*

Total Project Budget(# of years)	1 Year	\$150,611.00
Total Project Expenditure to date		\$142,155
% of Total Project Budget Expended		94.4%
Task Order Number/Study Number:		64 / 4-23787
Current Task Order Budget (# of years)	Year 1	\$150,611.00
Actual Expenditure to date against current task order		\$142,155
% of current task order budget expended		94.4%

* These are approximate expended amounts for the project; these estimates are for reference only and should not be used for official accounting purposes. For a more accurate project accounting please review the quarterly invoice for this project.